

Illinois Department of Transportation

Lifting holes shall be located in the sections as per the manufacturer's recommendations, except as noted.

See Standard 602701 for details of manhole steps.

 $\ensuremath{\mathsf{AII}}$ dimensions are in inches (millimeters) unless otherwise noted.

DATE	REVISIONS	
3-1-19	Moved wall reinforcement from	
	inside face to middle.	
1-1-19	Expanded / refined reinforcement	
	options. Increased vault depths.	
		1

PRECAST VALVE VAULT TYPE A 4' (1.22 m) DIAMETER

STANDARD 602501-05

Bar c #5 (#16), 6'-10" (2.08 m) length, 26 (660) radius bottom

PLAN - FLAT SLAB TOP

(Showing layout of reinforcement bars and c bars)

Bar c #5 (#16), 6'-10" (2.08 m) length, 26 (660) radius bottom #5 (#16) bars bottom. Bundle first bar with closest WWR bar to the opening and place second bar ±3 (75) away.

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ENGINEER OF POLICY AND PROCEDURES

PLAN - FLAT SLAB TOP

(Showing layout of welded wire reinforcement and c bars)

FLAT SLAB TOP REINFORCEMENT

Location	WWR (each direction)		Rebar		
Location	A _s (min.)	Spacing (max.)	A _s (min.)	Spacing (max.)	Bar Size
Bottom	* 0.62 sq. in./ft.	6	See plan view for rebar orientation and #5		#5
Mat	(1312 sq. mm/m)	(150)	spacing and this table for ba		(#16)

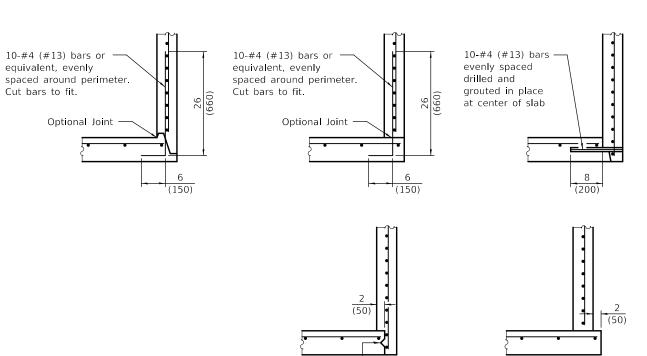
^{*} Only one layer of WWR permitted to avoid congestion.

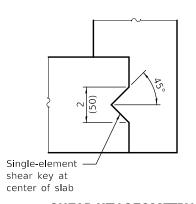
WALL REINFORCEMENT

Orientation	WWR or Rebar		
Orientation	A _s (min.)	Spacing (max.)	
Circumferential	0.12 sq. in./ft. (254 sq. mm/m)	6 (150)	
Vertical	0.045 sq. in./ft. (95 sq. mm/m)	8 (200)	

BASE SLAB REINFORCEMENT

Location	Total Height	WWR or Rebar (each direction)		
Location	Total Height	A _s (min.)	Spacing (max.)	
Тор	≤ 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)	
Mat	> 20 ft. (6.10 m)	0.24 sq. in./ft. (508 sq. mm/m)	10 (250)	





SHEAR KEY GEOMETRY

(Reinforcement not shown for clarity)

BASE SLAB JOINT CONFIGURATIONS

Single-element — shear key at center of slab

PRECAST VALVE VAULT TYPE A 4' (1.22 m) DIAMETER (Sheet 2 of 2)

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